Date: Tue, 28 Dec 93 04:30:16 PST
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V93 #155
To: Ham-Ant

Ham-Ant Digest Tue, 28 Dec 93 Volume 93 : Issue 155

Today's Topics:

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 27 Dec 93 15:50:45 EST
From: vnet.IBM.COM@uunet.uu.net
Subject: 11M >> 6M
To: ham-ant@ucsd.edu

I've been given an old 1/2-wave CB (11M) antenna. I'm wondering if
it is reasonable to modify it for 6M FM use. The vertical is in four
pieces, so if I take two out, it is about the right length for 6M 1/2-wave.
Do I also need to adjust the ground-plane rods? Any pitfalls or other
suggestions regarding the suitability of this antenna for 6M FM?

Regards, Evan Jennings

Date: Mon, 27 Dec 93 20:56:00 -0600

From: ddsw1!cronos!mike.brand@uunet.uu.net
Subject: 5, 10, 15MHz Antenna Ideas Wanted
To: ham-ant@ucsd.edu

Hello Netters,

 I have a Heathkit "Most Accurate Clock" for which I am in need of a
better antenna. The "Most Accurate Clock", for those that don't know,
receives and decodes WWV Time Information from Colorado, I am located in
a small suburb 30 miles SW of Chicago, IL. Reception has been poor as of
late, I need a better antenna than the standard whip. A long wire
antenna is out of the question, I have a small lot.

 I was thinking about the MFJ-1022 300KHz-200MHz Active Antenna as a
solution to my problem. There may be other solutions, I don't know,
thats why I turned to the net. Any comments, solutions, or
reccomendations would be very welcome.

Mike Brand, N9TLV   The Keeper of Time BBS
mike.brand@cronos.mcs.com   (815) 886-0177

Date: Tue, 28 Dec 1993 04:42:26 GMT
From: netcomsv!netcom.com!fmitch@decwrl.dec.com
Subject: 5, 10, 15MHz Antenna Ideas Wanted
To: ham-ant@ucsd.edu

Sysop (mike.brand@cronos.mcs.com) wrote:
: Hello Netters,

: I have a Heathkit "Most Accurate Clock" for which I am in need of a
: better antenna. The "Most Accurate Clock", for those that don't know,
: receives and decodes WWV Time Information from Colorado, I am located in
: a small suburb 30 miles SW of Chicago, IL. Reception has been poor as of
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: thats why I turned to the net. Any comments, solutions, or
: reccomendations would be very welcome.

: Mike Brand, N9TLV   The Keeper of Time BBS
: mike.brand@cronos.mcs.com   (815) 886-0177

i use a 40/30/20 meter dipole made out of 300 qhm tv type twin lead
in the attick for my "MAC"... works great!... just don't sit and

watch for the clock to set itself after you plug it in and connect
it to the antenna... hi... just come back the next day and it will
be ticking away... i think the delay in the clock setting itself is
a real bummer... you should be able to manually set it... all that
would have been needed was a couple of push button switches and
a few lines of software... anyway, i have a program that will
poll the clock and set the time in your pc if anyone needs it...

mitch, wa4osr
--
---
fmitch@netcom.com
Felton "Mitch" Mitchell, WA4OSR in Mobile, Alabama USA
205-342-7259 home, 205-476-4100 work, 205-476-0465 FAX
co-sysop for W4IAX bbs running fbb ... sysop for WA4OSR DXCluster in Mobile..

Date: Tue, 28 Dec 1993 05:18:33 GMT
From: munnari.oz.au!metro!dmssyd.syd.dms.CSIRO.AU!somlo@network.ucsd.edu
Subject: definition of "matched"
To: ham-ant@ucsd.edu

In article <drew.97.0@trl.oz.au>, Drew Diamond <drew@trl.oz.au> wrote:
>In article <CIEL80.2uG@news.direct.net> kg7bk@indirect.com (Cecil Moore) writes:
>>From: kg7bk@indirect.com (Cecil Moore)
>For example, say the SWR on the line is measured as 2.0; a mismatch
>therefore exists somewhere between the radio and antenna. Now if the
>tuner is interposed between the SWR meter and line, it may be possible to
>bring the SWR BETWEEN THE RADIO AND TUNER down to 1.0 with correct
>adjustment of the tuner. However, the SWR, beyond the tuner, in the section
>of line which runs to the antenna will still be 2.0 (assuming no significant
>harmonic energy is present at the output of the radio).
>
>73, Drew, VK3XU Telecom Australia Research Laboratories.

The above statement needs qualification. I the transmission line (which
could be a multi-section mismatched set) is loss-free, then AT ONE
FREQUENCY, if a tuner is inserted at the receiver and is set to a matched
condition, all the available energy will get into the receiver (despite the
fact that somewhere along the line there are a set of reflections). If the
line(s) are lossy, this is no longer possible. (At one frequency, the
complicated set of lines may be modelled as a single line with a
mismatch.)
--
Dr Peter I. Somlo FIEEE | CSIRO Div. Appl.Phys. | "Every coin has three
Microwave Res.Sci.(ret.)| Natl. Meast. Lab. | sides - at least"

TEL/FAX: 61-2-451-2478 | POB 218 Lindfield 2070| (Somlo, cca. 1985)
^^home^^ | NSW AUSTRALIA | elm:somlo@dap.csiro.au

Date: Mon, 27 Dec 1993 13:28:55 -0700
From: orca.es.com!cnn.sim.es.com!msanders.sim.es.com!user@uunet.uu.net
Subject: Information Needed
To: ham-ant@ucsd.edu

In article <2fkqfe$mbf@mailer.fsu.edu>, dreid@mailer.fsu.edu (Debi Reid) wrote:

> Hello all....
>
> I have just recently become rather intrested in radio-packet
> digital communications. Anyrate, I need some information to
> help me get started... I am intrested in learning more about
> AX.25 packet modem networks, how they operate and equipment
> needed (What sort of modem.... 9600bps... what TNC? Software
> ???? JNOS???? KA9Q??? huh?) Anyrate, i am pretty lost so
> basic info would be greatly appricatied...
>
> BTW: And I might get screamed at, but will a codeless lice.
> be enough? I know a good bit of electronics, should I go
> for some sorta tech, in order to learn more.....
>
> Lost...... tats me

Debi:

No flames, no screams. I was there a few months ago myself. This hobby has so many facets, that a few questions to get you going in the right direction is usually enough to blast off with. If you can talk on 2M, you can send packet on 2M (no-code tech is great - my 12 yr old is there and consuming my packet station at a tremendous rate. Have to figure a way to get it back from him!).

A good ol' XT computer, or anything newer will work fine. Also Macintosh, Commadore, COCO II, APPLE, etc. can be used, but I recommend an IBM compatible, especially if you have a working knowledge - more software, more experience, etc. are there to help you (no flames guys, I have a MAC at work, a Zenith Z-100, a COCO II, and several PC's, and still recommend the PCs).

The TNC takes info from the computer program (and you type in the commands and text) and operates the radio to send, and picks up what comes back.

The TNC usually has a built-in modem (nominally 1200 baud, at least for 2 meter) to take care of the information transfer. The toughest part for me right now, is figuring out and assembling the cables required to go between the computer, the TNC and the radio. These are serial type communications, and RS-232 is a nebulous standard. You should have seen my machinations with my Yeasu FT-2400 and the 8 pin flat cable telephone connector required to hook it up to the TNC! But it works.

So Debi: pretty simple: computer, software, cables, TNC, and radio.

I would suggest getting a couple of reference books to have around and give you the specific commands, and show you what you could expect to see coming across the screen. "Your Packet Companion" put out by the ARRL for about $8 is the one I got. There are 5-6 other ones available. And if you can find another packeteer to help, you will be in business.
Have fun,

Milt

--
==========

Opinions, thoughts, &cetera are my own (when I can remember them).

"He flies the sky KB7MSF
Like an Eagle in the eye UTAH
of a hurricane that's abandoned."

America

Date: Tue, 28 DEC 93 00:05:53 EST
From: library.ucla.edu!agate!howland.reston.ans.net!spool.mu.edu!bloom-beacon.mit.edu!noc.near.net!news.delphi.com!usenet@network.ucsd.edu
Subject: License
To: ham-ant@ucsd.edu

They would be most happy to direct you the the national organization for hams in Canada. The test questions are different. Though, many Canadians are members of the ARRL in order to enjouy the ex cellent magazine QST. Come aboard, you'll really enjoy it

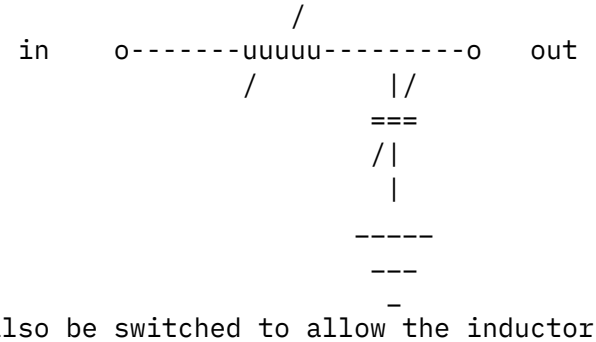
N6WR

Date: Mon, 27 Dec 1993 13:18:36 GMT
From: usc.edu!howland.reston.ans.net!darwin.sura.net!perot.mtsu.edu!raider!
theporch!jackatak!root@network.ucsd.edu
Subject: Ten-Tec 228 Tuner info ???
To: ham-ant@ucsd.edu

jaevans@clark.net (John A. Evans) writes:
> I am looking at a Ten-Tec Antenna Tuner model 228 at a local ham radio
> shop on consignment but have found nothing in the rags (I have access to)
> on the quality and usefulness of the unit for use with my Century 21
> transceiver.

Perhaps part of the problem is that the unit may be mis-labeled... I
have a Ten-Tec 229 tuner, and there is no marking on the front panel
to indicate the model...

> Any info on used price and experiences with the tuner are much
> appreciated in advance.
At any rate, the tuner I have, which I believe to be the same as what
you are considering, is an excellent tuner of the "L-network" type.
That is, the basic circuit is an "L" configuration:



which can also be switched to allow the inductor to face the load for
Lo Z systems... The construction is excellent, the rotary inductor
tracks smoothly, and the tuner works very well with coax or with
open-wire (ladder-line) feeds through the balun...

It is rated at 2KW, but I have not used mine for more than 100 watts,
because I haven't really had to...
I'd say the 228/229 tuner would work quite well with your Century
21... assuming, of course, that you get the very fine manual with the
tuner -- *READ* that very fine manual, and you will understand a great
deal about the tuner circuit and how to use it properly. If it doesn't
have one, email me and I'll make a copy and send it to you...
73,
Jack, W4PPT/Mobile
(1 QSL shy of 75M SSB WAS from the mobile -- and Santa didn't go
through Vermont to get to Tennessee! ;-( )

+--*--+
Jack GF Hill	Voice: (615) 459-2636 - Ham Call: W4PPT
P. O. Box 1685	Modem: (615) 377-5980 - Bicycling and SCUBA Diving
Brentwood, TN 37024	Fax: (615) 459-0038 - Life Member - ARRL
root@jackatak.raider.net - "Plus ca changer, plus c'est la meme chose"
+--*--+

Date: 27 Dec 1993 21:39:58 GMT
From: yeshua.marcam.com!wrdis02.robins.af.mil!demarsee@uunet.uu.net
Subject: Yagi Polarization Question
To: ham-ant@ucsd.edu

If you mount a yagi antenna neither vertically nor horizontally polarized, but diagonally (elements 45-degree angled from the ground), what would the gain be verses mounting it either vertically or horizontally? -3Db in both planes from it's rating in one plane? Or useless in both?

The question arises since I'd like to have a directional antenna to use for both polarizations, and I only have a single yagi I can put up in a fixed direction (rotors aren't an option right now). Any suggestions on how I can put this one yagi to good use in a fixed position for both polarizations?

Many Thanks & Regards,

Darryl Marsee, KD4UMP
demarsee@wrdis01.robins.af.mil
LOGDIS Systems Administrator

End of Ham-Ant Digest V93 #155
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